

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 1 · COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** ACETIC ACID  
**Control Number:** 00252  
**Product Description:** Inorganic Acid

### COMPANY IDENTIFICATION

**Supplier:** COLONIAL CHEMICAL SOLUTIONS, INC.  
916 West Lathrop Avenue  
Savannah, Georgia 31415

**24 Hour Emergency Telephone:** (800)-424-9300 CHEMTREC  
**General Information:** (912) 236-1331

## SECTION 2· HAZARDS IDENTIFICATION

### GHS Classification:

#### [ Health ]

Skin corrosion (Category 1A)  
Serious eye damage (Category 1)

#### [ Environmental ]

#### [ Physical ]

Flammable liquids Category 3

### GHS Label elements, including precautionary statements

#### Pictograms



**Signal Word:** Danger

#### Hazard statement(s)

H226 Flammable liquid and vapor.  
H314 Causes severe skin burns and eye damage.

#### Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 3 · COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Acetic Acid	64-19-7	81-99

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## SECTION 4 · FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if symptoms appear.

## SECTION 5 · FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

**Hazardous combustion products:** Oxides of carbon and various hydrocarbons.

**Fire Fighting Procedures:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Unusual Fire and Explosion Hazards:** Slightly explosive in presence of oxidizing materials. Reacts with metals to produce flammable hydrogen gas.

## SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Small Spills:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

**Large Spills:** Dike spill area to contain liquid. Salvage as much re-useable liquid as possible into a suitable container. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to regulations.

## SECTION 7 · STORAGE AND HANDLING

**Handling:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas, fumes, vapors or spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment.

**Storage** Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

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## SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

**Exposure Limits:** Acetic Acid 10 ppm ACGIH 10 ppm OSHA

### Personal Protective Equipment (PPE):

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

**Clothing:** Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

## SECTION 9 · PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** 103 °F

**Autoignition Temperature:** 905 °F

**Boiling Point:** 243 - 244 °F

**Melting Point/Freezing Point:** 61 °F

**Vapor Pressure:** 55 mmHg

**Vapor Density (Air-1):** No data available

**Odor/Appearance:** Colorless liquid with pungent Odor

**Flammability Limits:** Lower: 4 Upper: 19

**Specific Gravity:** 1.05

**Volatile %:** N/A

**Evaporation Rate (Water=1):** No data available

**pH:** 2.4

**Solubility in Water:** Completely miscible

## SECTION 10 · STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.

**Conditions to Avoid:** Keep away from heat, flame and other potential ignition sources.

**Incompatible Materials:** Strong oxidizing agents and Strong bases

**Hazardous Polymerization:** Will not occur.

## SECTION 11 · TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Skin:** Contact can cause redness and irritation. Severity depends on the amount and duration of exposure.

**Eyes:** Vapors are irritating to the eyes. Liquid contact will cause stinging and tearing.

**Inhalation:** Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing this material may cause central nervous system depression.

**Ingestion:** If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. Aspiration of this material into the lungs may result in damage or death.

### Acute oral toxicity:

Acetic Acid: LD50 rat - 3,310 mg/kg

### Acute inhalation toxicity:

Acetic Acid: LC50 rat - 11.4 mg/l 4 h

### Acute dermal toxicity:

Acetic Acid: LD50 rabbit - 1,112 mg/kg

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## SECTION 12 · ECOLOGICAL INFORMATION

**Ecotoxicity:** (LC50): 423 mg/l 24 hours [Fish (Goldfish)]. 88 ppm 96 hours [Fish (fathead minnow)]. 75 ppm 96 hours [Fish (bluegill sunfish)]. >100 ppm 96 hours [Daphnia].

**Bio-accumulative potential:** This product is readily biodegradable.

**Mobility:** No available Data

## SECTION 13 · DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14 · TRANSPORTATION

**U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):**

**Proper Shipping Name:** Acetic Acid  
**Hazard Class** 8 (3)  
**UN Number:** 2789  
**Packaging Group:** 2

## SECTION 15 · REGULATORY INFORMATION

### US FEDERAL REGULATIONS

**Comprehensive Environmental Response and Liability Act (CERCLA)**

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 5000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

**SARA Section 311/312 (40 CFR 370) Hazard Categories:**

Acute Health Hazard

**SARA Section 313 (40 CFR 372) Hazard Categories:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Water Act:** This product contains no chemicals that are listed under the CWA.

**Clean Air Act:** This product contains no chemicals that are listed under the CAA.

**California Prop 65:** This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

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<b>SECTION 16 · OTHER INFORMATION</b>
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**MSDS Revision Date:** January 2015

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health:** 3

**Flammability:** 2

**Reactivity:** 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.